# MASTER IN THE TEACHING OF mathematics

**A GRADUATE PROGRAMME IN THE DEPARTMENT OF MATHEMATICS & STATISTICS AT THE CONCORDIA UNIVERSITY**

- Teaching design at various levels of students' age and competence
- Methods of teaching design and its evaluation
- Use of computers in mathematics teaching
- Problem solving and problem posing
- Applications of research & participation in on–going research

"Master in the Teaching of Mathematics" is a graduate programme that aims at the improvement of the teaching of mathematics at pre–university levels by increasing the professionalism of teachers. Upon completion of the programme the student receives the degree of Master in the Teaching of Mathematics (M.T.M.)

**The Programme consists of:**

- specially selected courses in mathematics intended to familiarize teachers with the most important basic ideas and applications of mathematics;
- courses in the history and philosophy of mathematics;
- courses in mathematics education stimulating the reflection both on the practice of teaching and on the theories of mathematics teaching;
- courses on methods of teaching design;
- courses in the application of computers in the mathematics teaching;
- courses in research on mathematics education and the use of research findings in the practice of teaching.

**The programme offers three 45–credit streams:**

- coursework and thesis: 8 courses (24 credits) and thesis (21 credits);
- coursework and project: 11 courses (33 credits) and project (12 credits);
- coursework only: 15 courses (45 credits).

The Programme is open to elementary, secondary and collegial teachers interested and professional improvement.

**Secondary and Collegial Teachers**

Admission requirements: a bachelor's degree, some experience in teaching mathematics and an adequate mathematical background including courses equivalent to 6 credits in (a) Statistics–Probability, (b) Advanced Calculus, (c) Linear Algebra; a course equivalent to 3 credits in either Algebraic Systems or Differential Equations; and a working knowledge of a computer language.

**Part–time studies**

All courses in the M.T.M. programme are offered in the evening during the fall, winter and spring sessions, making it possible both for full– and part–time students to attend. A six–week summer session beginning the first week in July may be offered when there is sufficient demand.

**The Department**

The Department of Mathematics and Statistics has a strong commitment to mathematics education. Its Mathematics Education Group is actively involved in various research projects dealing with the learning and teaching of mathematics at different school levels. These projects provide an opportunity for interested students to participate in research.

**Financial Aid**

Full–time graduate students enrolled in the M.T.M. program are eligible for financial assistance in the form of teaching assistantships, research assistantships and graduate fellowships. Students receiving teaching assistantships are often expected to do classroom teaching which presupposes a certain fluency in English. Applications for financial assistance are usually processed through the graduate programme director of the department. The deadline for completed applications for fellowships is February 1st.

**Information**

To obtain application forms or additional information, write or call:

**The Secretary**
**M.T.M. Programme**
**Department of Mathematics & Statistics**
**Concordia University**
**7141 Sherbrooke St. West**
**Montréal, Qué.**
**Canada H4B 1R6**

**Tel: (514) 848–3250**

Concordia UNIVERSITY

SCHOOL OF Graduate Studies

REAL EDUCATION FOR THE REAL WORLD